

CLAIMS: WHAT IS CLAIMED IS:

Claim 1: A Behind The Ear, In The Ear, All in The Ear, In The Canal

or Completely In The Canal hearing aid consisting: a case, internal components, a battery door, a battery, a microphone, a speaker a volume control, a telephone coil activation switch, a telephone coil, and internal wires;

The internal wires are made resistant to electromagnetic interference produced by cellular telephones in the 800 MHz to **2500 MHz** frequency range by lining the case with an electrically conductive material;

One or more inductors or ferrite devices are put in series with some of the internal wires or components;

One or more capacitors are put in parallel with some of the internal wires or components;

The internal components are shielded from electromagnetic interference with electrically conductive foil, and conductive gaskets.

Claim 2: A Hearing aid as in claim 1 wherein the case is painted with an electrically conductive paint.

- ② Claim 13: A Hearing Aid as in claim 1 wherein the case is made of an electrically conductive plastic.
- ③ Claim 14: A Behind-The-Ear Hearing aid as in claim 11 which has a removable protective cap that covers all or part of the hearing aid and is made wholly or partially of an electrically conductive material.